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_	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/662,609	09/15/2003	Chih-Yang Pai	TSM03-0146	2342
	43859	7590 01/12/2006		EXAM	INER
		ER & MATSIL, L.L.P.	,	LE, THAO X	
	DALLAS, TX	ON ROAD, SUITE 1000 75252		PAPER NUMBER	
				2814	-
				DATE MAILED: 01/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		10/662,609	PAI ET AL.				
		Examiner	Art Unit				
		Thao X. Le	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	Status						
1) Responsive	1) Responsive to communication(s) filed on <u>13 December 2005</u> .						
2a)⊠ This action is	2a) This action is FINAL . 2b) This action is non-final.						
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>24-33</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) <u>24-33</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S	.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
· =	on's Patent Drawing Review (PTO-948) re Statement(s) (PTO-1449 or PTO/SB/08)	4)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 24-33 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5668035 to Fang et al.

Regarding claim 24, Fang discloses a method of forming a semiconductor devise, the method comprising: forming a cell gate oxide 14, fig. 4, column 3 line 63, in a cell region; forming a logic gate oxide 15, fig. 5, column 4 line 37, in a periphery region, forming a first doped polysilicon layer 16, column 4 lines 8, on the cell gate oxide 3; and forming a second polysilicon layer 20, column 4 line 48, the second polysilicon layer being in contact with the logic gate oxide 15 in the peripheral region and in contact with a major surface of the first doped polysilicon layer 16 in the cell region, fig. 6.

Regarding claims 25-26, 30, and 32-33, Fang discloses the method wherein the second polysilicon layer 20 positioned above the cell gate oxide 14, fig. 6, is a p-type doped polysilicon, the second polysilicon layer is doped with a material selected from the group consisting essentially of phosphorous, nitrogen, arsenic, and antimony, column 4 line 62

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Regarding claims 27-28, Fang discloses the method of claim 24 wherein the step of forming a first polysilicon layer 16 is performed by depositing by furnace an in-situ doped polysilicon, column 4 line 16, wherein depositing by furnace is performed at a temperature of about 550°C to about 600°C, column 4 line 13.

Regarding claim 29, Fang discloses the method of claim 24 wherein the second polysilicon layer 20 is formed of undoped polysilicon, column 4 lines 10-15.

Regarding claim 31, Fang discloses the method of claim 30 further comprising the step of doping the second polysilicon layer 20 located above the logic gate oxide with an n-type dopant, column 3 lines 25-30. Inherently, Fang discloses layer 20 can be doped with either N-type or P-type dopant.

Response to Amendment

3. The term 'major surface' is being interpreted as 'any surface'. As shown in fig. 6, the second polysilicon layer 20 of Fang is in contact with a major surface (side surface) of the first polysilicon layer 16.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao X. Le whose telephone number is (571) 272-1708. The examiner can normally be reached on M-F from 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on (571) 272 -1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao X. Le Patent Examiner 03 Jan. 2006 Art Unit: 2814

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LONG PHAM